

INTERNATIONAL SEARCH REPORT

International Application No
PCT/ 03/08353

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C08K5/3435 C08L23/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C08K C08L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 632 095 A (NEW JAPAN CHEM CO LTD) 4 January 1995 (1995-01-04) cited in the application claim 1 table 1 page 8, line 37,38 page 9, line 40-57	1-7,9, 10, 12-14, 16-22
Y	GB 1 492 494 A (SANKYO CO;CIBA GEIGY AG) 23 November 1977 (1977-11-23) claims 1,9,10,13 example 13 page 9, line 24 -/-	1-7,9, 10, 12-14, 16-22

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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PCT/03/08353

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 692 486 A (GUGUMUS FRANCOIS) 8 September 1987 (1987-09-08) claims 1,6 column 2; figures A-13 column 5, line 55,56 column 5, line 60 ----	1-24
A	EP 0 557 721 A (NEW JAPAN CHEM CO LTD) 1 September 1993 (1993-09-01) cited in the application claim 1 page 10, line 27-31 ----	1-24
A	WO 02 053633 A (THIERRY JEAN-FRANCOIS ;NYLSTAR S A (FR); CHARBONNEAUX THIERRY (IT)) 11 July 2002 (2002-07-11) claims 1,4 ----	1-24
A	EP 0 887 375 A (ATOCHEM ELF SA) 30 December 1998 (1998-12-30) claims 1,3 ----	1-24
X	US 4 797 350 A (OHBAYASHI KEIJI ET AL) 10 January 1989 (1989-01-10) claims 1,3 figures II-39 ----	25
X	DE 196 07 203 A (SUMITOMO CHEMICAL CO) 10 October 1996 (1996-10-10) page 18; figure 51 ----	25,27,28
X	DATABASE WPI Section Ch, Week 199716 Derwent Publications Ltd., London, GB; Class A23, AN 1997-176165 XP002237027 & JP 09 041217 A (TEIJIN LTD), 10 February 1997 (1997-02-10) abstract figure C ----	25
X	US 6 010 819 A (WATANABE HIROYUKI ET AL) 4 January 2000 (2000-01-04) figure A52; table 2 -----	25

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/08353

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0632095	A	04-01-1995	CN 1098725 A , B DE 69428166 D1 DE 69428166 T2 EP 0632095 A2 JP 3443934 B2 JP 7033895 A US 5491188 A	15-02-1995 11-10-2001 16-05-2002 04-01-1995 08-09-2003 03-02-1995 13-02-1996
GB 1492494	A	23-11-1977	AT 389276 A BE 842236 A1 CH 601401 A5 DE 2621870 A1 FR 2333795 A1 FR 2357546 A1 FR 2333797 A1 JP 51143673 A JP 62041223 B JP 1319620 C JP 59182826 A JP 60046142 B NL 7605796 A SE 7605286 A US 4191683 A	15-05-1977 26-11-1976 14-07-1978 16-12-1976 01-07-1977 03-02-1978 01-07-1977 10-12-1976 02-09-1987 29-05-1986 17-10-1984 14-10-1985 30-11-1976 29-11-1976 04-03-1980
US 4692486	A	08-09-1987	CA 1190038 A1 DE 3273474 D1 EP 0080431 A2 HK 60489 A JP 1782586 C JP 4065097 B JP 58079033 A SG 20689 G	09-07-1985 30-10-1986 01-06-1983 04-08-1989 13-08-1993 19-10-1992 12-05-1983 04-01-1991
EP 0557721	A	01-09-1993	JP 3243835 B2 JP 5310665 A JP 3374419 B2 JP 6107875 A JP 3374423 B2 JP 5262936 A DE 69329508 D1 DE 69329508 T2 EP 0557721 A2 EP 0962489 A2 KR 242873 B1 KR 266916 B1 US 6235823 B1	07-01-2002 22-11-1993 04-02-2003 19-04-1994 04-02-2003 12-10-1993 09-11-2000 03-05-2001 01-09-1993 08-12-1999 01-02-2000 15-09-2000 22-05-2001
WO 02053633	A	11-07-2002	FR 2818985 A1 CA 2432957 A1 EP 1358258 A2 WO 02053633 A2	05-07-2002 11-07-2002 05-11-2003 11-07-2002
EP 0887375	A	30-12-1998	CA 2241252 A1 CN 1210103 A EP 0887375 A1 JP 11071487 A JP 2000053824 A	24-12-1998 10-03-1999 30-12-1998 16-03-1999 22-02-2000

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT 03/08353

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4797350	A	10-01-1989	AU 592642 B2	18-01-1990
			AU 7287287 A	09-11-1987
			DE 3773036 D1	24-10-1991
			DE 3784051 D1	18-03-1993
			DE 3784051 T2	05-08-1993
			EP 0242211 A2	21-10-1987
			EP 0278003 A1	17-08-1988
			WO 8706360 A1	22-10-1987
			JP 2544422 B2	16-10-1996
			US 4906554 A	06-03-1990
DE 19607203	A	10-10-1996	CN 1149603 A	14-05-1997
			DE 19607203 A1	10-10-1996
			JP 8295799 A	12-11-1996
			NL 1002433 C2	20-11-1996
			NL 1002433 A1	29-08-1996
			SG 72643 A1	23-05-2000
JP 9041217	A	10-02-1997	NONE	
US 6010819	A	04-01-2000	JP 11125889 A	11-05-1999